



EPC7460A

Product: EPC 1.3

v1.03 Preparation Date: 13/04/2024

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SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION

PRODUCT NAME: **EPC7460A**
IDENTIFICATION NUMBER: **EPC1.2**
PRODUCT USE/CLASS: CLEAR PROTECTIVE COATING

DATE PRINTED: 31/01/2022

SUPPLIER:
Bromoco International Ltd.

MANUFACTURER:
Bromoco

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PREPARER: BS, PREPARE DATE: 2/07/2020

SECTION 2 - HAZARDS IDENTIFICATION

Classification of substance/mixture

Skin Irritation, category 2
Eye Irritation, category 2A
Specific Target Organ Toxicity – Single Exposure – Category 3
Acute aquatic toxicity – Category 2
Flammable Liquid, category 3

Signal Word: Warning



Hazard Statement:

H226 Flammable liquid and vapor
H313 May be harmful in contact with skin
H319 Causes serious eye irritation
H401 Toxic to aquatic life

Precautionary Statements: Prevention

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P273 Avoid release to the environment.
P264 Wash with soap and water thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection/face protection
P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.

Response	<p>P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337 + P313: If eye irritation persists: Get medical advice/attention.</p> <p>P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P302 + P352: IF ON SKIN: Wash with plenty of soap and water.</p> <p>P321: Specific treatment (see Section 4. First-aid).</p> <p>P304 + P340: IF INHALED: Remove person to fresh air and keep and keep comfortable for breathing.</p> <p>P314: Get medical advice/attention if you feel unwell.</p> <p>P332 + P313: If skin irritation occurs: Get medical advice/attention.</p> <p>P362: Take off contaminated clothing and wash before reuse.</p> <p>P370 + P378: In case of fire: Use dry chemical, carbon dioxide ©2), foam, or water spray (for large fires) to extinguish.</p>
Storage	P403 + P235: Store in a well-ventilated place. Keep cool
Disposal	P501 Dispose of contents and container in accordance with existing federal, state, and local environmental control laws.

Hazards not otherwise classified (HNOC) or not covered by GHS - None

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

CAS NUMBER	CHEMICAL NAME	WT/WT % RANGE
98-56-9	Benzene-1-chloro-4(trifluoromethyl)-	75-90%
Non-Hazardous	High molecular weight polymer resin	5-10%
108-65-6	Propylene Glycol Methyl Ether Acetate	5-10%
12-07-2	2-butoxy ethyl acetate	0.1-1.0%

SECTION 4 - FIRST AID MEASURES

General advice: First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Remove source of exposure or move person to fresh air and keep comfortable for breathing. If victim is not breathing, call 911 and administer CPR as directed. Eliminate all ignition sources if safe to do so.

Skin Contact: Rinse/wash with lukewarm, gently flowing water (and mild soap) for 15-20 minutes or until product is removed. If skin irritation occurs or you feel unwell: Get medical advice/attention.

Eye Contact: Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Take care not to rinse contaminated water into the unaffected eye or onto the face. Get immediate medical attention.

Ingestion: Do NOT induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position. Immediately call 911 POISON CENTER/doctor/. Immediately transport to the nearest medical facility for treatment.

Most important symptoms and effects, both acute and delayed: Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed

Notes to physician: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical, foam, carbon dioxide or fog is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only.

Unsuitable Extinguishing Media: No data available.

Specific Hazards in Case of Fire: No data available.

Fire-fighting Procedures: Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions: Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Emergency Procedure: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). RELEASE CAN CAUSE FIRE/EXPLOSION. LIQUIDS/VAPORS MAY IGNITE.

Do not touch or walk through spilled material.

Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated.

Recommended Equipment: Positive pressure, full-face piece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

Personal Precautions: Avoid breathing vapor. Avoid contact with skin, eye or clothing. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use explosive proof equipment. Avoid inhalation of dust and contact with skin and eyes. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental Precautions: Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

Methods and Materials for Containment and Cleaning up: Sand, clay and absorbent socks can be used to contain a spill

SECTION 7 - HANDLING AND STORAGE

General: Wash hands after use.

Do not get in eyes, on skin or on clothing.

Do not breathe vapors or mists.

Use good personal hygiene practices.

Eating, drinking and smoking in work areas is prohibited.

Remove contaminated clothing and protective equipment before entering eating areas.

Eyewash stations and showers should be available in areas where this material is used and stored.

Ventilation Requirements: Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

Storage Room Requirements: Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous.

Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored.

Ground and bond containers and receiving equipment. Avoid static electricity by grounding.

Electrostatic charges may be generated during pumping. Keep away from aerosols, flammables, oxidizing agents, corrosives and from other flammable products.

Storage stability

Steel drums. 24 Month

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory Protection: If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers.

Skin Protection: Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

Eye Protection: Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

Appropriate Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Ingredients with Occupational Exposure Limits (US)

<u>Name</u>	<u>%</u>	<u>ACGIH TLV- TWA</u>	<u>ACGIH TLV- STEL</u>	<u>OSHA PEL- TWA</u>	<u>OSHA PEL- CEILING</u>	<u>OEL Note</u>
Benzene-1-chloro-4(trifluoromethyl)-	75-90%	2.5 mg/m ³	N/E	2.5 mg/m ³	N/E	
High molecular weight resin	5-10%	N/E	N/E	N/E	N/E	
PropyleneGlycol MethylEther Acetate	5-10%	N/E	N/E	N/E	N/E	
2-butoxy ethyl acetate	0.1-1.0%	20 ppm	N/E	N/E	N/E	

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

APPEARANCE	: Colorless
PHYSICAL STATE	: LIQUID
BOILING RANGE	: 186 - 192 °C (367 - 378 °F)
VAPOR DENSITY	: Is heavier than air
ODOR	: Mild Solvent
ODOR THRESHOLD	: N.E.
EVAPORATION RATE	: Is slower than Butyl Acetate
SOLUBILITY IN H ₂ O	: Not soluble.
FREEZE POINT	: N.E.
SPECIFIC GRAVITY	: 1.269
VAPOR PRESSURE	: N.E.
pH	: N.E.
VOLATILE BY VOLUME	: 89.72%
FLASH POINT	: 109°F (43C)
(SETAFLASH CLOSED CUP)	
AUTOIGNITION TEMPERATURE: N.E. LOWER EXPLOSIVE LIMIT	: N.E.
UPPER EXPLOSIVE LIMIT	: N.E.
VOC Content Less Exempt (g/l)	: 520 g/l
VOC (g/l of material)*	: 118.3 g/l*

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use.

Conditions to Avoid: Avoid heat, sparks, open flames and other ignition sources.

Hazardous Reactions/Polymerization: No data available.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Thermal decomposition may yield carbon dioxide and/or carbon monoxide.

SECTION 11 - TOXICOLOGICAL PROPERTIES

Information on toxicological effects

Acute Toxicity, product:

Oral LD50	: N/D
Inhalation LC50	: N/D.
Irritation	: Unknown
Corrosivity	: Unknown
Sensitization	: Unknown
Repeated dose toxicity	: Unknown
Carcinogenicity	: Unknown
Mutagenicity	: Unknown
Toxicity for reproduction	: Unknown

If no information is available above under Acute Toxicity, then the acute effects of this product have not been tested. Data on individual components are tabulated below:

<u>CAS NUMBER</u>	<u>CHEMICAL NAME</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Vapor LC50</u>
98-56-9	Benzene-1-chloro-4(trifluoromethyl)-	3,300 mg/kg rat	> 2,000 mg/kg rat	>5.25 mg/l 4h rat – no deaths
108-65-6	PropyleneGlycol MethylEther Acetate	6,190 mg/kg Rat	5,000 mg/kg rabbit	4345 ppm rat – 6 hr
12-07-2	2-butoxy ethyl acetate	1,880 mg/kg rat	1,500 mg/kg rabbit	450 mg/l rat - 4 hr

Skin corrosion/irritation

Acute toxicity: Ingestion: May be harmful or fatal if swallowed.

Skin Corrosion/Irritation: Causes skin irritation

Serious eye damage/irritation: Causes serious eye irritation

Germ cell mutagenicity: No data available

Respiratory/Skin Sensitization: Slightly irritating to respiratory system.

Carcinogenicity: No data available

Reproductive toxicity: No data available

Specific Target Organ Toxicity - Repeated Exposure: No data available

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicological information on this product or its components appear in this section when such data is available.

Bio-accumulative Potential: No data available.

Persistence and Degradability: No data available.

Mobility in Soil: No data available.

Toxicity: Toxic to aquatic life

Other adverse effects: No data available.

Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

PropyleneGlycol MethylEther Acetate 2- butoxy ethyl acetate LC-50 (Fathead Minnow, 96 h): 161 mg/l
LC-50 (Rainbow Trout, 96 h): 20 - 40 mg/l
Benzene-1-chloro-4(trifluoromethyl)- No data available

Aquatic invertebrates

Product: No data available.

Specified substance(s)

PropyleneGlycol MethylEther Acetate LC-50 (daphnid, 48 h): 408 mg/l
EC-50 (daphnid, 48 h): 37 mg/l
2-butoxy ethyl acetate No data available
Benzene-1-chloro-4(trifluoromethyl)- No data available

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

PropyleneGlycol MethylEther Acetate LC-50 (Oryzias latipes, 14 d): 63.5 mg/l NOEC
(Oryzias latipes, 14 d): 47.5 mg/l
2-butoxy ethyl acetate No data available
Benzene-1-chloro-4(trifluoromethyl)- No data available

Aquatic invertebrates

Product: No data available.

Specified substance(s)

PropyleneGlycol MethylEther Acetate NOEC (daphnid, 21 d): >= 100 mg/l EC-50
(daphnid, 21 d): > 100 mg/l
2-butoxy ethyl acetate No data available
Benzene-1-chloro-4(trifluoromethyl)- No data available

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

PropyleneGlycol MethylEther Acetate EC-50 (Senastrum capricornutum, 96 h): > 1,000 mg/l NOEC
(Senastrum capricornutum, 96 h): >= 1,000 mg/l
2-butoxy ethyl acetate EC-50 (Algae (Pseudokirchneriella subcapitata), 72 h): 1,570 mg/l
Benzene-1-chloro-4(trifluoromethyl)- No data available

Persistence and degradability

Biodegradation

Product: No data available.

Specified substance(s)

PropyleneGlycol MethylEther Acetate 2- butoxy ethyl acetate 90 % (28 d, Ready Biodegradability: CO2 Evolution Test) Readily biodegradable
88 % (28 d, Ready Biodegradability: Manometric Respirometry Test)
Benzene-1-chloro-4(trifluoromethyl)- No data available

Biological Oxygen Demand:

Product No data available.

Specified substance(s)

PropyleneGlycol MethylEther Acetate	1,050 mg/g
2-butoxy ethyl acetate	No data available
Benzene-1-chloro-4(trifluoromethyl)-	No data available

Chemical Oxygen Demand:**BOD/COD ratio** No data available**Bioaccumulative potential****Mobility in soil:** No data available**Known or predicted distribution to environmental compartments**

No data available.

Its of PBT and vPvB assessment: No data available.**Other adverse effects:** No data available.**SECTION 13 - DISPOSAL CONSIDERATIONS****Waste Disposal Method:**

Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14 - TRANSPORTATION INFORMATION**DOT (US)**

Proper shipping name	Paint
UN number	1263
Class	3
Packing group	III

Classification for SEA transport (IMO-IMDG):

Proper shipping name	Paint
UN number	1263
Class	3
Packing group	III
Marine pollutant	No
Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code	

Classification for AIR transport (IATA/ICAO):

Proper shipping name	Paint
UN number	1263
Class	3
Packing group	III

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

SECTION 15 - REGULATORY INFORMATION

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety Data Sheet prepared in accordance with Regulation (EU) 2015/830.

Regulation (EC) No.1272/2008 and its updates.

Regulation (EC) No. 440/2008 laying down test methods under the REACH Regulation.

European Agreement on the International Carriage of Dangerous Goods by Road (ADR).

International Maritime Dangerous Goods Code (IMDG).

International Air Transport (IATA) relating to the carriage of goods by air.

Directive 96/82/EC; 2003/105 / EC and 2012/18 / EU on SEVESO.

Directive 2004/37/EC on the risk of exposure to chemical agents CMR and its updates.

Directives 98/24/CE, 91/322/CE, 2000/39/CE, 2009/161/CE, 2017/164/CE and 88/642/EEC on limits of exposure of workers to chemical agents.

Directive 89/656/EEC on minimum health and safety requirements for the use of Personal Protective Equipment and Directive 988/93 of 6 October.

Directive 89/654/EEC on the minimum safety and health requirements for the workplace.

Regulation (EU) No. 1357/2014 of waste and Directive 2008/98/EC and Directive 2015/1127 on waste management and regulation.

Commission Decisions 2001/118/EC; 2001/119/EC; 2001/573/EC and 2014/955/EU on the European Waste List.

Directive 2008/105/EC and 2009/90/EC on environmental quality in the field of water policy.

Regulation (EU) No. 528/2012 and updates for biocidal products.

Directive 2010/75 / EU and Directive 2004/42/EC and updates on Limitation of Emission of Volatile Organic Compounds.

Regulation (EU) No. 10/2011 and updates on materials and articles in contact with foodstuffs.

Classification and labeling were carried out in accordance with Regulation (EC) No. 1272/2008 and its updates.

Commission Decision 2014/312 / EU on Ecolabel and updates.

· Named dangerous substances - ANNEX I of the directive 96/82/CE None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

.SECTION 16 - OTHER INFORMATION

Hazard Rating System HMIS

RATINGS - HEALTH: 2 FLAMMABILITY: 2 REACTIVITY: 0 PP-G

Revision

Identification Number: EPC 1.2 v1.2 SDS

Issue Date: 3/07/2020 / Version: 1.2

This information is based on our present knowledge based on technical and national and EC legislation. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The product should only be applied for the applications referred in the manufacturer's name and logo have been changed.

Section 1 - Identification of the substance/mixture and of the company/undertaking
Technical Data Sheet.

The information provided above is intended as a guide to assist in the safe handling, use, processing, storage, transportation, disposal and release of the material listed. Nothing contained herein is to be considered as an express or implied warranty of performance or quality. The information relates only to the specific material designated and may not be applicable when such material is used in combination with any other materials or as part of any process, except as otherwise expressly described herein. The information is believed to be true and correct as of the date issued. Always make sure you are using the most current information available.

The material described herein is produced for commercial and industrial use only and unless otherwise specifically designated by the manufacturer in writing has not received any specific regulatory approval such as approvals for food contact or for use in medical/surgical applications or devices. It is buyer and user's sole and exclusive responsibility to ensure that any handling, use, processing, storage, transportation, disposal and release of the material complies with all applicable laws, rules and regulations.

Methods of evaluating information for classification include: use of product-specific data, comparative data and / or component-based assessment.

· Department issuing SDS: BROMOCO International UK Ltd

· Contact: sales@bromocointernational.com

· * **Data compared to the previous version**

The manufacturer's name and logo have been changed.

Section 1 - Identification of the substance/mixture and of the company/undertaking

Section 16 - Other information

<END OF SDS>